

**Figure 1:**

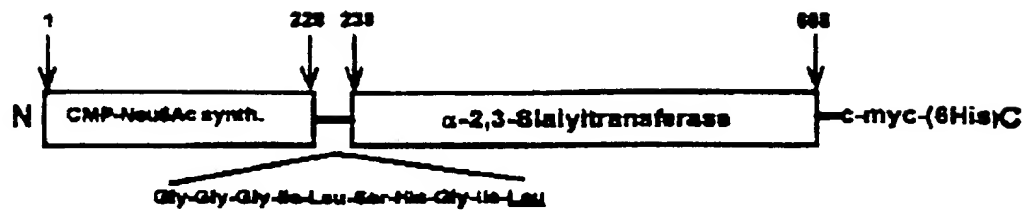


Figure 2

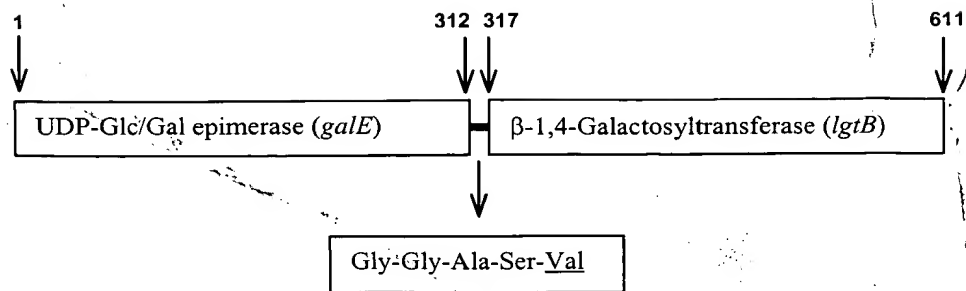
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1  -----+-----+-----+-----+-----+-----+-----+-----+ 60
TACGTTTTTGGTGAATAGTCGAATCGAAGGCGGCGTCTTGCGTCCCGCGTGAACGGCTA
M Q N H V I S L A S A A E R R A H I A D -
ACCTTCGGCAGGCACGGCATCCCGTTTCAGTTTTTCGACGCACTGATGCCGTCTGAAAGG
61  -----+-----+-----+-----+-----+-----+-----+-----+ 120
TGGAAGCCGTCCCGTGCCGTAGGGCAAAGTCAAAAAGCTGCGTGACTACGGCAGACTTTCC
T F G R H G I P F Q F F D A L M P S E R -
CTGGAACAGGCAATGGCGGAACTCGTCCCCGGCTTGTGCGCGCACCCCTATTTGAGCGGA
121  -----+-----+-----+-----+-----+-----+-----+-----+ 180
GACCTTGTCCGTTACCGCCTTGAGCAGGGGCCGAACAGCCGCTGGGGATAAACTCGCCT
L E Q A M A E L V P G L S A H P Y L S G -
GTGGA AAAAGCCTGCTTTATGAGCCACGCCGTATTGTGGAAGCAGGCATTGGACGAAGGT
181  -----+-----+-----+-----+-----+-----+-----+-----+ 240
CACCTTTTTCGGACGAAATACTCGGTGCGGCATAACACCTTCGTCCGTAACCTGCTTCCA
V E K A C F M S H A V L W K Q A L D E G -
CTGCCGTATATCACCGTATTTGAGGACGACGTTTTTACTCGGCGAAGGTGAGGAAAAATTCT
241  -----+-----+-----+-----+-----+-----+-----+-----+ 300
GACGGCATATAGTGGCATAAACTCCTGCTGCAAAATGAGCCGCTTCCACTCCTTTTAAAG
L P Y I T V F E D D V L L G E G E E K F -
CTTGCCGAAGACGCTTGGCTGCAAGAACGCTTTGACCCGGATACCGCCTTTATCGTCCGC
301  -----+-----+-----+-----+-----+-----+-----+-----+ 360
GAACGGCTTCTGCGAACCGACGTTCTTGCGAAACTGGGCGCTATGGCGGAAATAGCAGGCG
L A E D A W L Q E R F D P D T A F I V R -
TTGGAACGATGTTTATGCACGTCCTGACCTCGCCCTCCGGCGTGGCGGATTACTGCGGG
361  -----+-----+-----+-----+-----+-----+-----+-----+ 420
AACCTTTGCTACAAATACGTGCAGGACTGGAGCGGGAGGCCCGCACCCTAATGACGCCCC
L E T M F M H V L T S P S G V A D Y C G -
CGCGCCTTTCCGCTGTTGGAAGCGAACACTGGGGGACGGCGGGCTATATCATTTCCCGA
421  -----+-----+-----+-----+-----+-----+-----+-----+ 480
GCGCGGAAAGGCGACAACTTTTCGCTTGTGACCCCTCGCCCGGATATAGTAAAGGGCT
R A F P L L E S E H W G T A G Y I I S R -
AAAGCGATGCGGTTTTTTCCTGGACAGGTTTGCCGCCCTGCGCCCGAAGGGCTGCACCCC
481  -----+-----+-----+-----+-----+-----+-----+-----+ 540
TTTCGCTACGCCAAAAGGACCTGTCCAACGGCGGGACGGCGGGCTTCCCGACGTGGGG
K A M R F F L D R F A A L P P E G L H P -
GTGATCTGATGATGTTTCAGCGATTTTTTCGACAGGGAAGGAATGCCGTTTGGCAGCTC
541  -----+-----+-----+-----+-----+-----+-----+-----+ 600
CAGCTAGACTACTACAAGTCGCTAAAAAAGCTGTCCCTTCCTTACGCCAAAACGGTCGAG
V D L M M F S D F F D R E G M P V C Q L -
AATCCCGCCTTGTGCGCCCAAGAGCTGCATTATGCCAAGTTTCACGACCAAAACAGCGCA
601  -----+-----+-----+-----+-----+-----+-----+-----+ 660
TTAGGGCGGAACACGCGGGTTCTCGACGTAATACGGTTCAAAGTGCTGGTTTTGTGCGGT
N P A L C A Q E L H Y A K F H D Q N S A -
TTGGGCGAGCCTGATCGAACACGACCGCCTCCTGAACCGCAAACAGCAAAGGCGCGATTCC
661  -----+-----+-----+-----+-----+-----+-----+-----+ 720
AACCCGTCGGACTAGCTTGTGCTGGCGGAGGACTTGGCGTTTGTGCTTTCCGCGCTAAGG
L G S L I E H D R L L N R K Q Q R R D S -
CCCGCCAACACATTCAAACACCGCCTGATCCGCGCCTTGACCAAAATCAGCAGGGAAAGG
721  -----+-----+-----+-----+-----+-----+-----+-----+ 780
GGGCGGTTGTGTAAGTTTGTGGCGGACTAGGCGCGGAAGTGGTTTGTGCTCCCTTTCC
P A N T F K H R L I R A L T K I S R E R -
GAAAAACGCCGCGCAAAGGCGGAACAGTTTCATTGTGCCTTTCCAATAA
781  -----+-----+-----+-----+-----+-----+-----+-----+ 828
CTTTTTGCGGCGGTTTCCGCGCTTGTCAAGTAACACGGAAGGTTATT
E K R R Q R R E Q F I V P F Q * -

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CCF64466

Figure 3



307427 1037600

**063169** *of low- $\alpha$  with*

*galE* NheI *lgtB*

5' CCA	AAA	GGG	TAC	GAT	GAT	CGA	GGA	GGC	GGA	GCT	AGC	GTG	CAA	AAC	CAC	GTT	ATC	AGC	TTA	GCT	3'
3' GGT	TTT	CCC	ATG	CTA	CTA	GCT	CCT	CCG	CCT	CGA	TCG	CAC	GTT	TTG	GTG	CAA	TAG	TCG	AAT	CGA	5'
P	K	G	Y	D	D	R	G	G	G	A	S	V	Q	N	H	V	I	S	L	A	